

## ABSTRACT

### High-performance, Low Cost Spread Spectrum Data Access System and Method

An integrated high-bandwidth spread spectrum data access system is provided. The high-bandwidth data access system includes at least one transmission cell capable of communicating with at least one Consumer Premises Equipment (CPE) in said cell. The transmission cell and CPE are remotely managed by a network management element. The system may be implemented over a public RF band and may dynamically self-configure its architecture to take advantage of optimal interference and user conditions. The CPE is installable by an end-user without the expense of a technician. The system is easily expandable and may be integrated with any of a variety of providers, including DSL and cable head ends, in a single data network.

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